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CLAIMS:

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- 1. A method of encoding an audio signal (x), the method comprising the steps of: providing a respective set of sampled signal values for each of a plurality of sequential segments; analysing the sampled signal values to generate one or more sinusoidal components for each of the plurality of sequential segments; linking sinusoidal components across a plurality of sequential segments; generating sinusoidal codes comprising tracks of linked sinusoidal components for each of the plurality of sequential segments wherein each track comprises a frequency and amplitude for a sinusoidal component in a starting segment of a track, and wherein selected tracks do not include a phase for said starting segment; and generating an encoded audio stream including said sinusoidal codes.
- 2. A method according to claim 1 wherein said selected tracks include an indicator that no phase is included for said starting segment.
- 3. A method according to claim 1 wherein said selected tracks are less than 5 segments in length.
- 4. A method according to claim 1 wherein said selected tracks are less than 40ms 20 in length.
 - 5. A method according to claim 1 wherein said selected tracks represent non-tonal components of an audio signal.
- 25 6. A method according to claim 1 wherein said selected tracks represent a component of a voiced time interval in said audio signal.
 - 7. A method according to claim 1 wherein said selected tracks represent a component of a noisy interval in said audio signal.

8. A method according to claim 1 in which each track comprises a frequency and amplitude difference for each sinusoidal component in a subsequent continuation segment of said track.

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- 9. Method of decoding an audio stream, the method comprising the steps of: reading an encoded audio stream including sinusoidal codes comprising tracks of linked sinusoidal components for each of the plurality of sequential segments, wherein each track comprises a frequency and amplitude for a sinusoidal component in a starting segment of a track, and wherein selected tracks do not include a phase for said starting segment; generating for said selected tracks a random start phase; and employing said sinusoidal codes to synthesize said audio signal including re-constructing sinusoidal components across a plurality of sequential segments.
- 15 10. A method as claimed in claim 9 wherein said generating step comprises generating a random phase for each sinusoidal component of said selected tracks.
- 11. Audio coder arranged to process a respective set of sampled signal values for each of a plurality of sequential segments of an audio signal (x), said coder comprising:...
 20 an analyser arranged to analyse the sampled signal values to generate one or more sinusoidal components for each of the plurality of sequential segments;
 a linker arranged to link sinusoidal components across a plurality of sequential segments;
 a component arranged to generate sinusoidal codes comprising tracks of linked sinusoidal components for each of the plurality of sequential segments wherein each track comprises a
 25 frequency and amplitude for a sinusoidal component in a starting segment of a track, and wherein selected tracks do not include a phase for said starting segment; and a bit stream generator for generating an encoded audio stream including said sinusoidal codes.
- 30 12. Audio player, comprising:

means for reading an encoded audio stream including sinusoidal codes comprising tracks of linked sinusoidal components for each of the plurality of sequential segments, wherein each track comprises a frequency and amplitude for a sinusoidal component in a starting segment of a track, and wherein selected tracks do not include a phase for said starting segment;

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a phase generator arranged to generate for said selected tracks a random start phase; and a synthesizer employing said sinusoidal codes to synthesize said audio signal including reconstructing sinusoidal components across a plurality of sequential segments.

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- 5 13. Audio system comprising an audio coder as claimed in claim 11 and an audio player as claimed in claim 12.
- 14. Audio stream comprising sinusoidal codes representative of at least a component of an audio signal, said codes comprising tracks of sinusoidal components linked across said plurality of sequential segments, wherein each track comprises a frequency and amplitude for a sinusoidal component in a starting segment of a track, and wherein selected tracks do not include a phase for said starting segment.
- 15. Storage medium on which an audio stream as claimed in claim 14 has been stored.